

Isotope Intercomparison Flight Summary

30 June 2005

General Information

Flight date – 3 July 2005

Flight description – Flight 2 Isotope mission

Flight duration – 4.3 hours

Crew – Rick Hull, Dom Del Rosso

Instruments flown (12): ALIAS, Argus, CAPS, CO₂, Harvard Water Vapor, HOxotope, ICOS, JLH, MMS, PANTHER, PT, Total Water

Flight Log

MMS On	0925	Takeoff	0946	Begin Descent	1332
Before Taxi	0940	Climb/18000	0952	Landing	1357

Gear extension/retractions

Gear Up	0946	1345				
Gear Down	1332	1354				

Weather Observations

Climb:

- We penetrated a small cloud at 2,000 ft during climb-out

Cruise:

- The sky was clear, with a widely scattered cumulus layer below at 8 to 15 kft.
- Generally clear on entire route, with scattered low-level formations.
- One cirrus layer was penetrated at FL360, and again (barely) during course reversal at 12:02 and 12:20.
- On descent, the sky was clear of clouds until near EFD.
- We did not penetrate any cloud cover on approach to EFD; we were under the layer.

Flight Profile

We flew the planned profile with the following exceptions:

- We stopped climbing in the ascent to 570 since no clouds had been penetrated prior.
- We cut the corner at the southern end to attempt to penetrate the only cirrus layer in the vicinity.

Instrument Notes

- ICOS briefly indicated fail on taxi.
- CAPS briefly indicated fail on climb-out
- ALIAS indicated fail at 8,500 ft; reset 1x (0953)
- ALIAS indicated fail after penetrating cirrus layer; reset 1x (1204)
- ALIAS indicated fail on descent; reset 1x (1349)
- Fails on descent, as expected:
 - HOxotope
 - Harvard water vapor
 - ICOS

To ftp for the nav data:

IP address 128.157.138.64

Username: anonymous@wb57f.asds.net

Password: <any email address>

The directory is: WB57F_Processed/Isotope